

AMENDMENTS

In the Claims:

1-6. (Canceled)

7. (Currently Amended) A method for implanting a prostheses by determining which cervical intervertebral prostheses of a cervical intervertebral prosthesis system comprising a plurality of intervertebral prostheses of different hinge radii are suitable for replacing cervical intervertebral disks, comprising:

providing a cervical intervertebral prosthesis system comprising at least first and second different prostheses for replacement of at least first and second intervertebral disks, each of which has a hinge with a predefined center of hinge movement, wherein the different prostheses have different positions of the center of hinge movement,

determining the hinge radii of first and second affected joints, the first affected joint being associated with the first intervertebral disk and the second affected joint being associated with a second intervertebral disk,

selecting the first prosthesis with a hinge radius approximating the hinge radius of the first affected joint to replace the first intervertebral disk,

selecting the second prosthesis with a hinge radius approximating the hinge radius of the second affected joint to replace the second intervertebral disk, the first intervertebral disk lying in a cranial direction relative to the second intervertebral disk, and

implanting the selected prostheses into the affected joints, wherein

the first prosthesis has a smaller extent in an anterior-posterior direction and slide surface with a greater radius of curvature than the extent in the anterior-posterior direction and radius of curvature of the slide surface of the second prosthesis.

8-11. (Canceled)

12. (Previously Presented) The method according to claim 7, wherein at least one prosthesis has a slide surface radius above 18 mm and at least one prosthesis has a slide surface radius below 18 mm.

13. (Previously Presented) The method according to claim 12, wherein at least one prosthesis has a slide surface radius below 15 mm.

14. (Canceled)

15. (Previously Presented) A method for implanting a prosthesis by determining which cervical intervertebral prostheses of a cervical intervertebral prosthesis system comprising at least first and second different prostheses for replacement of at least first and second intervertebral disks, each of which has a hinge with a predefined center of hinge movement and comprises a pair of slide surfaces configured to form the hinge, and wherein the different prostheses have different positions of the center of hinge movement and have slide surfaces with different radii of curvature, are suitable for replacing at least two cervical intervertebral disks, the method comprising:

providing the cervical intervertebral prosthesis system,

determining the hinge radii of at least first and second affected joints, the first affected joint being associated with the first intervertebral disk and the second affected joint being associated with the second intervertebral disk,

selecting the first one of the different prostheses of the system to replace the first intervertebral disk,

selecting the second one of the different prostheses to replace the second intervertebral disk, the first intervertebral disk lying in a cranial direction relative to the second intervertebral disk, and

implanting the selected prostheses into the affected joints,

so that the first one of the different prostheses has slide surfaces with a greater radius of curvature than the radius of curvature of the slide surfaces of the second one of the different prostheses of the system which is selected to replace the second intervertebral disk.